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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/961,425	61,425 09/25/2001		Akio Nakashima	2165.11	6616	
5514	7590	06/03/2003				
		LLA HARPER &	EXAM	EXAMINER		
• •	DROCKEFELLER PLAZA EW YORK, NY 10112 DICUS, TAMRA				ΓAMRA	
				ART UNIT	PAPER NUMBER	
				1774	7/	
				DATE MAILED: 06/03/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	alicant(s)	
Office Action Cummon	09/961,425	NAKASHIMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tamra L. Dicus	1774	
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the c	rr spondence address	•
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communical D (35 U S C & 133)	tion.
1) Responsive to communication(s) filed on 19 h	<u> 1arch 2003</u> .		
2a)☐ This action is FINAL . 2b)⊠ Thi	s action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under Disposition of Claims	ince except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merit 53 O.G. 213.	s is
	_		
4) Claim(s) is/are pending in the application			
4a) Of the above claim(s) is/are withdray	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.		
9) The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) accep		minor	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep		ved by the Examiner.	
12) The oath or declaration is objected to by the Exa	•		
Priority under 35 U.S.C. §§ 119 and 120	arimor.		
13) Acknowledgment is made of a claim for foreign	priority under 25 H S C & 410/o) (d) or (f)	
a) All b) Some * c) None of:	priority under 33 0.3.0. § 119(a)-(u) or (r).	
1. Certified copies of the priority documents	haya haan raasiyad		
		an Na	
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior action f	eau (PCT Rule 17.2(a)).		
14)☐ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional applica	ation).
 a) The translation of the foreign language provides 15) Acknowledgment is made of a claim for domestic 			
Attachment(s)		·	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)	<u>.</u> ·
S. Patent and Trademark Office			



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DETAILED ACTION

Response to Amendment

The 112 rejection is withdrawn.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being obvious over USPN 6,228,804 to Nakashima.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). For applications filed on or after November 29, 1999, this rejection might also be overcome by showing that the subject matter of the reference and the



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claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person. See MPEP § 706.02(l)(1) and § 706.02(l)(2).

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 4. Claims 1-22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15, and 19-21 of U.S. Patent No. 6,228,804 to Nakashima.
- 5. Although the conflicting claims are not identical, they are not patentable distinct from each other because the present claims differ only in the recitation of defining similar terms such as porous resin layer, first colored layer, water-repellent resin layer, image layers forming pattern. The equivalents are listed below before the aforementioned terms which the Examiner has included in parenthesis. Such naming the same terms differently does not change the invention.

Nakashima teaches various multilayered structures of color-changing materials.

Nakashima's color-changing materials are functional equivalents to a water-metachromatic laminate as the color-changing material of Nakashima is brought into contact with water at col.



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16, lines 25-60. The features of the invention of Nakashima reside in that a thermochromic layer is formed on a substrate (support) and a porous layer containing a low-refractive-index pigment (porous resin layer) is superposed on each other, a color-change material/layer (first colored layer) is provided on the thermochromic layer and substrate. Nakashima features various structural arrangements and teaches various functionalities for such a thermochromatic/watermetachromatic laminate. A thermochromic image pattern layer (colored layer) may be formed on the thermochromatic/porous resin layer, a porous image pattern layer (water-repellent resin layer) may be formed on the thermochromic layer, and either a thermochromic layer and/or a porous layer are suitable as an image pattern layer which may overly the color-changing layer. The porous image pattern is made of the same material as Applicant and therefore functions as a water-repellent resin layer. This teaching therefore provides use of a second colored layer as in instant claim 4. Nakashima teaches image pattern layer may comprise a star pattern (see patented claim 8, and col. 21, line 20), and may be a variety of designs/patterns/symbols/figures/dots. All indicia and images of claims 2 and 5 are therefore taught. Nakashima teaches an effective substrate of cloths such as woven fabrics, knit fabrics, braiding, and nonwoven fabrics, papers etc. The pigments comprises urethane and silicic acid (instant claim 6). See Examples 5 and 16, col. 4, lines 14-68, col. 8, line 65-col. 9, line 2, col. 10, lines 1-50, Figure 5, and col. 11, lines 10-15. The characteristics of the laminate are taught in all the examples, see 3 and 4. At col. 6, lines 8-11, the porous resin layer is added from 1 to 30 g/m². Additionally regarding the use of a second color layer, mere duplication of parts is not germane to patentability, especially since Nakashima teaches the compatibility of the layers.

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Response to Arguments

6. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamra L. Dicus whose telephone number is (703) 305-3809. The examiner can normally be reached on Monday-Friday, 7:00-4:30 p.m., alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on (703) 308-0449. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-8329 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Tamra L. Dicus

Examiner Art Unit 1774

May 30, 2003

CYNTHIA H. KELLY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700